

ASTD/TDI Project Static Report

Advanced Technologies for Stabilization of Pu-238 Contaminated Combustible Waste

Focus Area:	Nuclear Materials Focus Area	Focus Area Manager: Ken Osborne, (208) 526-0805
TTP No.:	AL19PU11	Principal Investigator: Kevin Ramsey, (505) 665-0024
Lead Site:	Albuquerque - Los Alamos National Laboratory	
Project No.:	99-ASTD-14	Technology Vendor(s)/Commercial Partner(s):
Tech ID/TMS No.:		None identified at this time
Related Publication(s):	None	

Web Page(s):

Description:

- This project integrates two technologies to stabilize Pu-238 contaminated combustible waste
- Molten Salt Oxidation destroys combustible components resulting in spent salt
- An aqueous chemical process for Pu-238 recovers the Pu-238 from the spent salt (ion exchange and precipitation).
- These technologies are projected to reduce drum waste volume by 99% and Pu-238 content by 95%. The LANL deployment will initially process 7517 kg of combustible waste.

Application: Stabilization of Pu-238 contaminated combustible waste.

Location(s): LANL

Technology(ies):

Aqueous Chemical Separation for Pu-238 Recovery

Molten Salt Oxidation (MSO)

	Funding (\$K):	<u>FY-98</u>	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>Total</u>
TTP No.:	AL19PU11	\$0	\$1,053	\$1,053	\$0	\$2,106
Leverage Source:	NE-50					\$12,000
					Funding Total (\$K):	\$14,106
Cost Savings (\$M):	<u>Proposal</u>	<u>Deployment Plan/TTP</u>	<u>Current Focus Area Projection</u>			
	\$73,100	\$73,100	\$73,100			